

FIGURE 1: EXAMPLE OF ONE METHOD FOR INCORPORATING THE AERODYNAMIC EFFECTS NEEDED FOR WHEEL SPIN-UP

AIRCRAFT WHEEL PRE-SPIN ROTOR PERFORMANCE PREDICTION

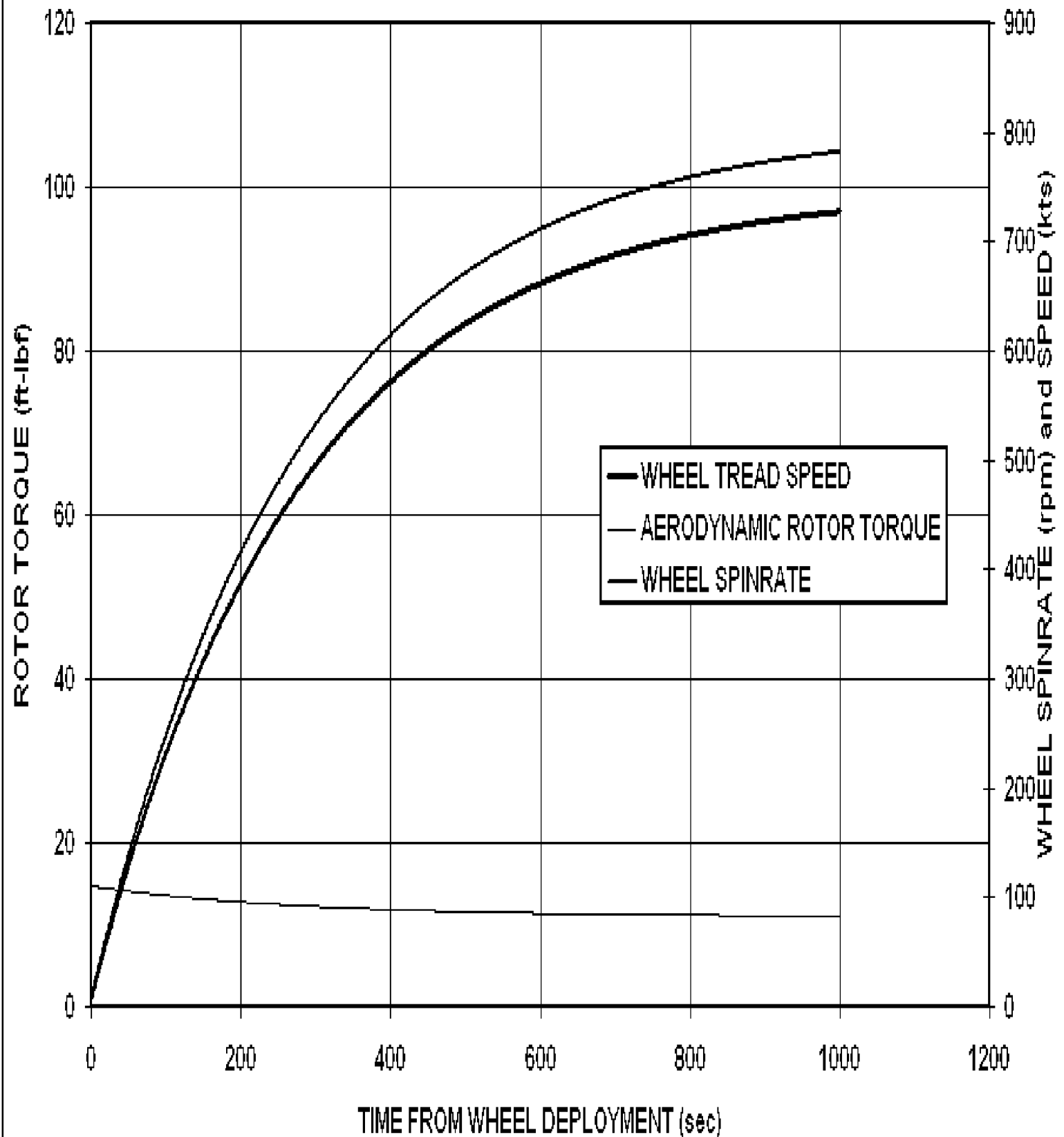
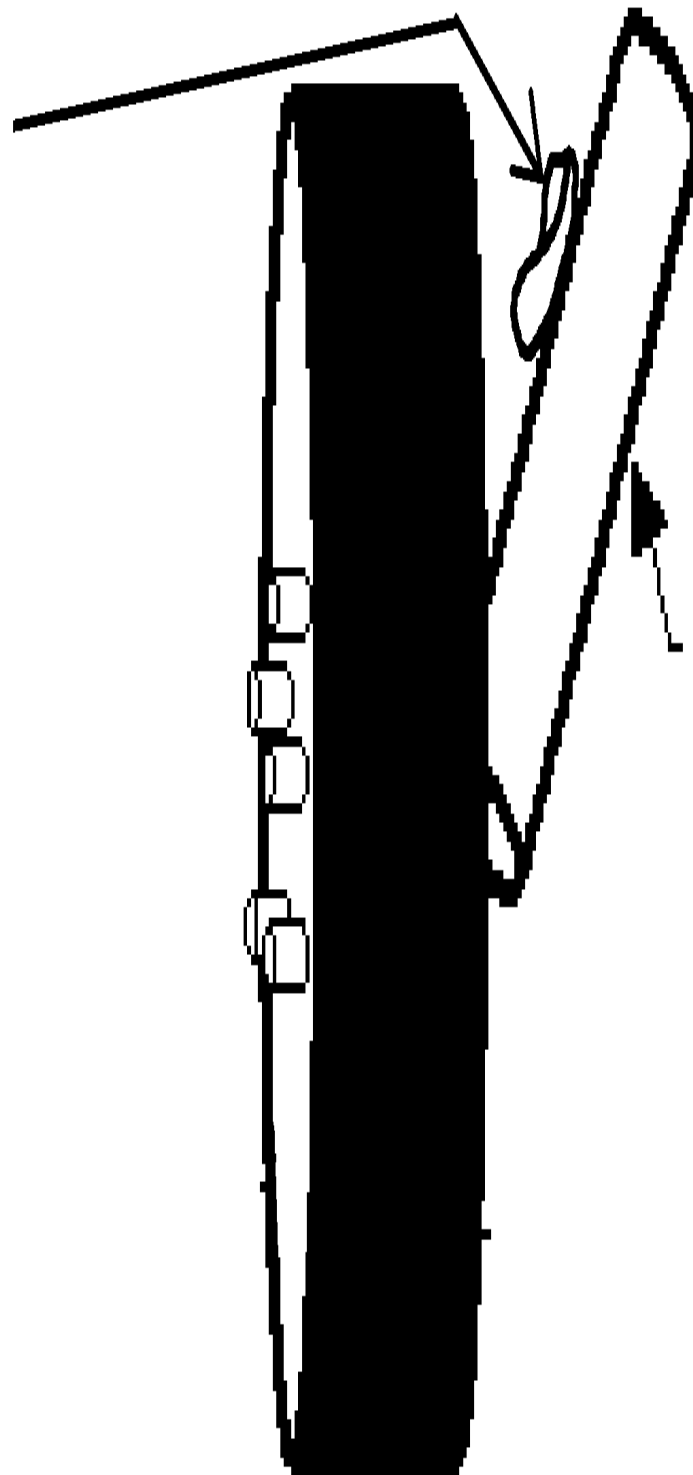


FIGURE 2: EXAMPLE OF PREDICTED WHEEL ROTATIONAL RESPONSE AS A FUNCTION OF WHEEL SIZE, ROTOR AERODYNAMICS, AXLE FRICTION, ETC.

**AIRCRAFT WHEEL
PRE-SPIN CONTOUR
CUP**



Typical
Aircraft
Landing Gear

FIGURE 3: EXAMPLE OF STATIC "CUP" METHOD FOR INCORPORATING THE AERODYNAMIC EFFECTS NEEDED FOR WHEEL SPIN-UP

FIGURE 4: DEPICTION OF THE PROBLEM AND THE WHEEL SPIN-UP ROTOR

QUESTION: From where is all that
rubber on a runway coming?

ANSWER: YOUR TIRES.

